SYSTEM FOR PROVIDING MULTIPLE DISPLAY SUPPORT AND METHOD THEREOF

ABSTRACT OF THE DISCLOSURE

A system and method is provided for supporting a multiple display configuration through a single connected display device. The present disclosure allows a system desktop to be expanded across multiple virtual displays without a need for extra hardware to support multiple display devices. A display driver partitions a frame buffer of a video card into portions. Each portion is used to support a different virtual display. The display driver reports a number of virtual displays to an operating system and provides pointers to addresses associated with the portions of the frame buffer. The operating system treats each frame buffer portion as a separate frame buffer and stores video data for each virtual display in an associated frame buffer portion. The display driver selects a virtual display from a set of multiple virtual displays and routes video data from the frame buffer portion associated with the selected display for output on a connected display device.